

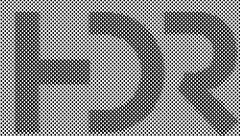
COST ESTIMATE

Volume 2

United States Environmental Protection Agency
New Cassel/Hicksville Groundwater Contamination Superfund Site
Towns of North Hempstead, Hempstead and Oyster Bay,
Nassau County, New York

Contract No. EP-W-09-009
Work Assignment No. 032-ROBE-A245

JULY 2015



July 8, 2015

**New Cassel/Hicksville Groundwater Contamination
Superfund Site – Remedial Design Oversight
032-ROBE-A245
Cost Estimate**

This draft Cost Estimate which constitutes Volume 2 of the Draft Work Plan submittal was prepared for the United States Environmental Protection Agency (EPA) by Henningson, Durham and Richardson Architecture and Engineering, P.C. in association with HDR Engineering, Inc. (HDR) to provide Remedial Design (RD) Oversight services for the New Cassel / Hicksville Groundwater Contamination Superfund Site (the Site), located in the Towns of North Hempstead, Hempstead and Oyster Bay, Nassau County, New York. This draft Cost Estimate was prepared based upon the May 28, 2015 Statement of Work (SOW) and discussions with the EPA during the scoping meeting held on June 9, 2015. The RD Oversight is being performed under Work Assignment Number 032-ROBE-A245, under the EPA Remedial Action Contract (RAC) 2 Contract Number EP-W-09-009.

The task descriptions provided in the SOW are described in detail in the Draft Work Plan (Volume 1) and are outlined below. For purposes of negotiating the Draft Work Plan submittal with EPA we have provided our assumptions used to develop the Cost Estimate. 2015 labor rates were used for this estimate.

Note the Cost Estimate includes only activities in Task 1 per the SOW. Concurrent with the SOW EPA issued a Unilateral Administrative Order to the PRP for RD Work. Pending PRP compliance, a Work Assignment Amendment will be issued to HDR by EPA to complete the Cost Estimate for the remaining RD Oversight tasks. In the event the PRPs do not comply, EPA intends to issue a new Work Assignment for HDR to perform the RD activities.

Task 1 - Project Planning and Support

Task 1.1 - Project Administration (assume 98 LOE hours)

As per the SOW, the period of performance (POP) for full RD Oversight is 24 months; however, HDR has assumed a 7 month POP for completion of Task 1 only as described above. The breakdown is as follows:

- P4 = 14 LOE hours
 - 2 hour/month for 7 months: monthly invoicing, project status and budget (14 hours)
- P3 = 56 LOE hours
 - Record keeping and filing, project guide, quality control and financial system updates (4 hours per month, 7 months = 28 hours)

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- Monthly invoicing, progress reports, project status and budget, status updates, team meetings, projections, scheduling and staffing (4 hours/month, 7 months = 28 hours)
 - P2 = 14 LOE hours
 - 2 hour/month, 7 months for progress reports, project status and budget reviews
 - T1 = 14 hours
 - 2 hours/month, 7 months for monthly invoicing

Task 1.2 - Scoping Meeting (4.5 LOE hours)

- P3 = 2 LOE hours
 - Attend meeting plus travel (2 hours)
- P2 = 2.5 LOE hours
 - Attend meeting plus travel (2 hours)
 - Prepare and submit draft/final meeting minutes (0.5 hour)

Task 1.3 - Conduct Site Visit

Although the SOW calls for a site visit, HDR is very familiar with the Site; therefore, LOE has not been assumed for this task.

Task 1.4 – Develop Draft Work Plan and Cost Estimate (assume 36 LOE hours)

- P4 = 4 LOE hours
 - QC review
- P3 = 10 LOE hours
 - Develop work plan text (3 hours)
 - Cost estimate and assumptions (3 hours)
 - QC review (4 hours)
- P2 = 22 LOE hours
 - Develop work plan text (10 hours)
 - Cost estimate and assumptions (8 hours)
 - Figures/tables (1 hour)
 - Project schedule (1 hours)
- Clerical = 1 LOE hour
 - Prepare hardcopies (1 hour)

Task 1.5 - Negotiate and Revise Draft Work Plan /Budget (assume 7.5 LOE hours)

- P4 = 1.5 LOE hours
 - Participate in one (1) teleconference negotiation (1 hour)
 - QC review of final Work Plan/Budget (0.5 hours)
- P3 = 3 LOE hours

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- Prepare for and participate in one (1) teleconference negotiation (1 hour)
 - Revise Work Plan/Budget, project schedule, etc. (2 hours)
 - P2 = 3 LOE hours
 - Prepare for and participate in one (1) teleconference negotiation (1 hour)
 - Revise Work Plan/Budget (2 hours)
 - Clerical = 1 LOE hours
 - Prepare hardcopies (1 hour)

Task 1.6 - Evaluate Existing Data and Documents (assume 50 hours)

- Review PRP Background Documents (Assumes 1 document) :
 - P3 = 10 LOE hours
 - P2 = 40 LOE hours

Task 1.7 – QAPP

HDR has assumed that a QAPP will not be prepared at this time since there are no sampling requirements or field work included in Task 1 activities. In the future if a Work Assignment amendment is issued by EPA authorizing oversight of the remaining RD Oversight tasks, HDR would revise the Cost Estimate at that time to include preparation of the QAPP.

Task 1.8 – HASP (assume 9 hours)

This Task assumes the preparation of a limited HASP to cover on-Site meetings. It assumes no EPA review/comment. In the future if a Work Assignment amendment is issued by EPA authorizing oversight of the remaining RD Oversight tasks, HDR would revise the Cost Estimate at that time to include preparation of a full HASP.

- P3 = 1 LOE hour
 - Provide input and QC review
- P2 = 8 LOE hours
 - Prepare limited HASP for on Site meetings

Task 1.9 – Review PRP Plans (assume 140.5 hours)

- Review PRP Work Plan: Assume 100 page document (LOE 62.5 hours)
 - P3 = 12.5 LOE hours
 - Focused review of document/review prepared comments (12.5 hours)
 - P2 = 50 LOE hours
 - Review document (2 pages / hour = 50 hours)
- Review PRP QAPP: assumes 37 worksheets (LOE 46.5 hours)
 - P3 = 9.5 LOE hours
 - Focused review of document/review prepared comments (9.5 hours)
 - P2 = 37 LOE hours

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- Review document (1 hour / worksheet = 37 hours)
 - Review PRP HASP : Assumes 100 pages (LOE 31.5 hours)
 - P3 = 6.5 LOE hours
 - Focused review of document/review prepared comments (6.5 hours)
 - P2 = 25 LOE hours
 - Review document (4 pages / hour = 25 hours)

Task 1.10 – Meetings/Weekly Conference Calls (assume 122 hours)

- Meetings at EPA's office in New York City (18 LOE hours)
 - One 4-hr meeting
 - Two HDR team members
 - P3 = 8 LOE hours
 - Prepare for the meetings (1 hour/meeting = 1 hours)
 - Attend meeting plus travel (6 hours/meeting = 6 hours)
 - Draft minutes/follow-up (1 hour/meeting = 1 hours)
 - P2 = 10 LOE hours
 - Prepare for the meetings (1 hour/meeting = 1 hours)
 - Attend meeting plus travel (6 hours/meeting = 6 hours)
 - Prepare Draft/Final minutes/follow-up after the meetings (3 hours/meeting = 3 hours)
- Meetings at the Site (20 LOE hours)
 - One 4-hr meeting
 - Two HDR team members
 - P3 = 9 LOE hours
 - Prepare for the meetings (1 hour/meeting = 1 hours)
 - Attend meeting plus travel (7 hours/meeting = 7 hours)
 - Draft minutes/follow-up (1 hour/meeting = 1 hours)
 - P2 = 11 LOE hours
 - Prepare for the meetings (1 hour/meeting = 1 hours)
 - Attend meeting plus travel (7 hours/meeting = 7 hours)
 - Prepare Draft/Final minutes/follow-up after the meetings (3 hours/meeting = 3 hours)
- Weekly Conference Calls (84 LOE hours)
 - Weekly calls for 28 weeks (7 months)
 - Two HDR team members
 - P3 = 42 LOE hours
 - Prepare for the meetings (0.5 hours/meeting = 14 hours)
 - Attend meeting (1 hour/meeting = 28 hours)
 - P2 = 42 LOE hours

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- Prepare for the meetings (0.5 hours/meeting = 14 hours)
 - Attend meeting (1 hour/meeting = 28 hours)

Task 1.11 - Subcontract Procurement

HDR has assumed that Subcontract Procurement will not be prepared at this time since there are no sampling requirements or field work included in Task 1 activities. In the future if a Work Assignment amendment is issued by EPA authorizing oversight of the remaining RD Oversight tasks, HDR would revise the Cost Estimate at that time to include this sub-task.

Task 1.12 - Perform Subcontract Management

HDR has assumed that Subcontract Management will not be needed at this time since there are no sampling requirements or field work included in Task 1 activities. In the future if a Work Assignment amendment is issued by EPA authorizing oversight of the remaining RD Oversight tasks, HDR would revise the Cost Estimate at that time to include this sub-task.

Cost Tables

DRAFT

WORK PLAN

EPA REGION 2 AES CONTRACT NO. EP-W-09-009

**REPORT:: GENERAL SUMMARY**

WORK ASSIGNMENT NO: 032-ROBE-A245

WORK ASSIGNMENT TYPE: Remedial Design Oversight

SUBMITTAL DATE 07/09/15

WORK ASSIGNMENT TITLE: New Cassel/Hicksville Groundwater Contamination Site

GENERAL SUMMARY			
1	Labor Hours		
	P4	19.5 Hours	4%
	P3	169.5 Hours	36%
	P2	264.5 Hours	57%
	P1	0.0 Hours	0%
	T2	0.0 Hours	0%
	T1	14.0 Hours	3%
	Professional Level of Effort (LOE)	467.5 Hours	% LOE
	Clerical	2.0 Hours	% Clerical 0%
	Grand Total Labor Hours	469.5 Hours	
2	Labor Cost		
2a	HDR, Inc.		
	Total Labor (\$)		
	Grand Total Labor Cost (\$)		
3	Other Direct Costs		
4	Travel		
5	Pool Subcontractors		
6	Special Equipment		
7	Total Estimated Costs		
8	Fees		
	Fee on LOE (\$7.984 * LOE)		
	Mod 0056, September 2014		
	Fee on Pool Subcontractors		
	Grand Total Fees (\$)		
9	Total Estimated Costs & Fees		

REPORT 2: DETAIL SUMMARY

WORK ASSIGNMENT NO: 032-ROBE-A245

WORK ASSIGNMENT TYPE: Remedial Design Oversight

WORK ASSIGNMENT TITLE: New Cassel/Hicksville Groundwater Contamination Site

HDR, Inc. and Team Subcontractors
SUBMITTAL DATE 07/09/15

Task Number	Task Name	LOE Hours [Report 2]	Total Labor Cost	ODCs [Report 3]	Travel [Report 4]	Pool Subcontractors [Report 5]	Special Equipment [Report 6]	Estimated Cost	Fee	Total
Task 1 Project Planning And Support										
1	1.1 Project Administration	98								
1	1.2 Attend Scoping Meeting	4.5								
1	1.3 Conduct Site Visit	..								
1	1.4 Develop Draft RD Oversight Work Plan and Cost Estimate	36								
1	1.5 Negotiate and Prepare Final Work Plan and Budget	7.5								
1	1.6 Evaluate Existing Data and Documents	50								
1	1.7 Quality Assurance Project Plan (QAPP)	..								
1	1.8 Health and Safety Plan (HASP)	9								
1	1.9 Review PRP Plans	140.5								
1	1.10 Meetings/Weekly Conference Calls	122								
1	1.11 Subcontract Procurement	..								
1	1.12 Perform Subcontract Management	..								
TASK 1 SUBTOTALS		467.5								
FEE ON POOL SUBCONTRACTORS (4.167%)										
TASK 1 TOTALS										
Task 2 Community Relations										
2	2.1 Community Interviews - Not Applicable	..								
2	2.2 Community Relations Plan (CRP) - Not Applicable	..								
2	2.3 Public Information Meeting Support	..								
2	2.4 Fact Sheet Preparation	..								
2	2.5 Proposed Plan Support - Not Applicable	..								
2	2.6 Public Notices	..								
2	2.7 Information Repositories	..								
2	2.8 Site Mailing List	..								
TASK 2 SUBTOTALS		0								
FEE ON POOL SUBCONTRACTORS (4.167%)										
TASK 2 TOTALS										
Task 3 Field Oversight and Data Acquisition										
3	3.1 Mobilization and Demobilization Oversight	..								
3	3.2 Remedial Design Field Oversight	..								
3	3.3 Prepare Field Investigation Oversight Periodic Reports	..								
3	3.4 Prepare Final Field Investigation Oversight Summary Report	..								
TASK 3 SUBTOTALS		0								
FEE ON POOL SUBCONTRACTORS (4.167%)										
TASK 3 TOTALS										
Task 4 Analysis of Split Samples										
4	4.1 Innovative Methods/Field Screening Analysis	..								
4	4.2 Analytical Services Via CLP, DESA, EPA-ERT	..								
4	4.3 Non-Routine Analytical Services	..								
TASK 4 SUBTOTALS		0								
FEE ON POOL SUBCONTRACTORS (4.167%)										
TASK 4 TOTALS										
Task 5 Task 5 Data Validation of Split Samples										
5	5.1 Prepare and Ship Environmental Samples	..								
5	5.2 Sample Management/Coordination with Appropriate Personnel	..								
5	5.3 Data Validation	..								
TASK 5 SUBTOTALS		0								
FEE ON POOL SUBCONTRACTORS (4.167%)										
TASK 5 TOTALS										
Task 6 Task 6 Data Evaluation of Sample Analysis										
6	6.1 Data Usability Evaluation and Field QA/QC	..								
6	6.2 Data Reduction, Tabulation and Evaluation	..								
6	6.3 Modeling Oversight	..								
6	6.4 Technical Memorandum (Data Evaluation Report)	..								
TASK 6 SUBTOTALS		0								
FEE ON POOL SUBCONTRACTORS (4.167%)										
TASK 6 TOTALS										
Task 7 Task 7 Review of PRP Remedial Design Documents										
7	7.1 Review PRP Remedial Design Documents	..								
TASK 7 SUBTOTALS		0								
FEE ON POOL SUBCONTRACTORS (4.167%)										
TASK 7 TOTALS										
Task 8 Task 8 Technical Meeting Support										
8	8.1 Technical Meeting Support	..								
TASK 8 SUBTOTALS		0								
Task 9 Task 9 Work Assignment Closeout										
9	9.1 Revised Work Plan Budget	..								
9	9.2 Document Indexing	..								
9	9.3 Document Retention/Conversion	..								
TASK 9 SUBTOTALS		0								
FEE ON POOL SUBCONTRACTORS (4.167%)										
TASK 9 TOTALS										
GRAND TOTAL		467.5		\$30.00						

WORK PLAN
EPA REGION 2 AES CONTRACT NO. EP-W-09-009



REPORT 1a: SUMMARY

WORK ASSIGNMENT NO: 032-ROBE-A245

WORK ASSIGNMENT TYPE: Remedial Design Oversight

SUBMITTAL DATE 07/09/15

WORK ASSIGNMENT TITLE: New Cassel/Hicksville Groundwater Contamination Site

Task Number	Task Name	LOE Hours [Report 2]	Total Labor Cost	ODCs [Report 3]	Travel [Report 4]	Pool Subcontractors [Report 5]	Special Equipment [Report 6]	Total
Task 1 Project Planning And Support								
1	1.1 Project Administration	98						
1	1.2 Attend Scoping Meeting	4.5						
1	1.3 Conduct Site Visit	0						
1	1.4 Develop Draft Work Plan and Associated Cost Estimate	36						
1	1.5 Negotiate and Prepare Final Work Plan and Budget	7.5						
1	1.6 Evaluate Existing Data and Documents	50						
1	1.7 Quality Assurance Project Plan (QAPP)	0						
1	1.8 Health and Safety Plan (HASP)	9						
1	1.9 Review PRP Plans	140.5						
1	1.10 Meetings/Weekly Conference Calls	122						
1	1.11 Subcontract Procurement	0						
1	1.12 Perform Subcontract Management	0						
TASK 1 TOTALS		467.5						
Task 2 Community Relations								
2	2.1 Community Interviews - Not Applicable	0						
2	2.2 Community Relations Plan (CRP) - Not Applicable	0						
2	2.3 Public Meeting Support	0						
2	2.4 Fact Sheet Preparation	0						
2	2.5 Proposed Plan Support - Not Applicable	0						
2	2.6 Public Notices	0						
2	2.7 Information Repositories	0						
2	2.8 Site Mailing List	0						
TASK 2 TOTALS		0						
Task 3 Field Oversight and Data Acquisition								
3	3.1 Mobilization and Demobilization Oversight	0						
3	3.2 Remedial Design Field Oversight	0						
3	3.3 Prepare Field Investigation Oversight Periodic Reports	0						
3	3.4 Prepare Final Field Investigation Oversight Summary Report	0						
TASK 3 TOTALS		0						
Task 4 Task 4 Analysis of Split Samples								
4	4.1 Innovative Methods/Field Screening Analysis	0						
4	4.2 Analytical Services Provided by CLP, DESA, EPA-ERT	0						
4	4.3 Non-Routine Analytical Services	0						
TASK 4 TOTALS		0						
Task 5 Task 5 Data Validation of Split Samples								
5	5.1 Prepare and Ship Environmental Samples	0						
5	5.2 Sample Management/Coordination with Appropriate Personnel	0						
5	5.3 Data Validation	0						
TASK 5 TOTALS		0						
Task 6 Task 6 Data Evaluation of Sample Analysis								
6	6.1 Data Usability Evaluation and Field QA/QC	0						
6	6.2 Data Reduction, Tabulation and Evaluation	0						
6	6.3 Modeling Oversight	0						
6	6.4 Technical Memorandum (Data Evaluation Report)	0						
TASK 6 TOTALS		0						
Task 7 Task 7 Review of PRP Remedial Design Documents								
7	7.1 Review PRP Remedial Design Documents	0						
TASK 7 TOTALS		0						
Task 8 Task 8 Technical Meeting Support								
8	8.1	0						
TASK 8 TOTALS		0						
Task 9 Task 9 Work Assignment Closeout								
9	9.1 Revised Work Plan Budget	0						
9	9.2 Document Indexing	0						
9	9.3 Document Retention/Conversion	0						
TASK 9 TOTALS		0						
GRAND TOTAL		467.5						

WORK PLAN
EPA REGION 2 AES CONTRACT NO. EP-W-09-009

REPORT 2a: LABOR

WORK ASSIGNMENT NO: 032-ROBE-A245

WORK ASSIGNMENT TITLE: New Cassel/Hicksville Groundwater Contamination Site

WORK ASSIGNMENT TYPE: Remedial Design Oversight

SUBMITTAL DATE 07/09/15



Task Number	Task Name	P4	P3	P2	P1	T2	T1	Total LOE	Clerical	Total Labor Hours	Labor Cost
Task 1 Project Planning And Support											
1	1.1 Project Administration	14	56	14			14	98		98	
1	1.2 Attend Scoping Meeting		2	2.5				4.5		4.5	
1	1.3 Conduct Site Visit							0		0	
1	1.4 Develop Draft Work Plan and Associated Cost Estimate	4	10	22				36	1	37	
1	1.5 Negotiate and Prepare Final Work Plan and Budget	1.5	3	3				7.5	1	8.5	
1	1.6 Evaluate Existing Data and Documents		10	40				50		50	
1	1.7 Quality Assurance Project Plan (QAPP)							0		0	
1	1.8 Health and Safety Plan (HASP)		1	8				9		9	
1	1.9 Review PRP Plans		28.5	112				140.5		140.5	
1	1.10 Meetings/Weekly Conference Calls		59	63				122		122	
1	1.11 Subcontract Procurement							0		0	
1	1.12 Perform Subcontract Management							0		0	
TASK 1 TOTALS		19.5	169.5	264.5	0	0	14	467.5	2	469.5	
Task 2 Community Relations											
2	2.1 Community Interviews - Not Applicable							0		0	
2	2.2 Community Relations Plan (CRP) - Not Applicable							0		0	
2	2.3 Public Meeting Support							0		0	
2	2.4 Fact Sheet Preparation							0		0	
2	2.5 Proposed Plan Support - Not Applicable							0		0	
2	2.6 Public Notices							0		0	
2	2.7 Information Repositories							0		0	
2	2.8 Site Mailing List							0		0	
TASK 2 TOTALS		0	0	0	0	0	0	0	0	0	
Task 3 Field Oversight and Data Acquisition											
3	3.1 Mobilization and Demobilization Oversight							0		0	
3	3.2 Remedial Design Field Oversight							0		0	
3	3.3 Prepare Field Investigation Oversight Periodic Reports							0		0	
3	3.4 Prepare Final Field Investigation Oversight Summary Report							0		0	
TASK 3 TOTALS		0	0	0	0	0	0	0	0	0	
Task 4 Task 4 Analysis of Split Samples											
4	4.1 Innovative Methods/Field Screening Analysis							0		0	
4	4.2 Analytical Services Provided by CLP, DESA, EPA-ERT							0		0	
4	4.3 Non-Routine Analytical Services							0		0	
TASK 4 TOTALS		0	0	0	0	0	0	0	0	0	
Task 5 Task 5 Data Validation of Split Samples											
5	5.1 Prepare and Ship Environmental Samples							0		0	
5	5.2 Sample Management/Coordination with Appropriate Personnel							0		0	
5	5.3 Data Validation							0		0	
TASK 5 TOTALS		0	0	0	0	0	0	0	0	0	
Task 6 Task 6 Data Evaluation of Sample Analysis											
6	6.1 Data Usability Evaluation and Field QA/QC							0		0	
6	6.2 Data Reduction, Tabulation and Evaluation							0		0	
6	6.3 Modeling Oversight							0		0	
6	6.4 Technical Memorandum (Data Evaluation Report)							0		0	
TASK 6 TOTALS		0	0	0	0	0	0	0	0	0	
Task 7 Task 7 Review of PRP Remedial Design Documents											
7	7.1 Review PRP Remedial Design Documents							0		0	
TASK 7 TOTALS		0	0	0	0	0	0	0	0	0	
Task 8 Task 8 Technical Meeting Support											
8	8.1 Technical Meeting Support							0		0	
TASK 8 TOTALS		0	0	0	0	0	0	0	0	0	
Task 9 Task 9 Work Assignment Closeout											
9	9.1 Revised Work Plan Budget							0		0	
9	9.2 Document Indexing							0		0	
9	9.3 Document Retention/Conversion							0		0	
TASK 9 TOTALS		0	0	0	0	0	0	0	0	0	
ALL TASKS SUBTOTAL		19.5	169.5	264.5	0.0	0.0	14.0	467.5	2.0	469.5	
OVERHEAD (158.6%)											
GRAND TOTAL		19.5	169.5	264.5	0.0	0.0	14.0	467.5	2.0	469.5	

REPORT 3a: OTHER DIRECT COSTS

WORK ASSIGNMENT NO: 002-ROBE-A245

WORK ASSIGNMENT TYPE: Remedial Design Oversight

SUBMITTAL DATE 07/09/16

WORK ASSIGNMENT TITLE: New Cassel/Hicksville Groundwater Contamination Site

Task Number	Task Name	Expense Type	Unit Price (\$)	Units	Cost (\$)	Notes
Task 1 Project Planning And Support						
1	1.1 Project Administration					
1	1.2 Attend Scoping Meeting					
1	1.3 Conduct Site Visit					
1	1.4 Develop Draft Work Plan and Associated Cost Estimate					
1	1.5 Negotiate and Prepare Final Work Plan/Budget					
1	1.6 Evaluate Existing Data and Documents					
1	1.7 Quality Assurance Project Plan (QAPP)					
1	1.8 Health and Safety Plan (HASP)					
1	1.9 Review PRP Plans					
1	1.10 Meetings/Weekly Conference Calls					
1	1.11 Subcontract Procurement					
1	1.12 Perform Subcontract Management					
TASK 1 TOTALS						
Task 2 Community Relations						
2	2.1 Community Interviews - Not Applicable					
2	2.2 Community Relations Plan (CRP) - Not Applicable					
2	2.3 Public Meeting Support					
2	2.4 Fact Sheet Preparation					
2	2.5 Proposed Plan Support					
2	2.6 Public Notices					Large newsprint Small newsprint
2	2.7 Information Repositories					
2	2.8 Site Mailing List					
TASK 2 TOTALS						
Task 3 Field Oversight and Data Acquisition						
3	3.1 Mobilization and Demobilization Oversight					
3	3.2 Remedial Design Field Oversight					
3	3.3 Prepare Field Investigation Oversight Periodic Reports					
3	3.4 Prepare Final Field Investigation Oversight Summary Report					
TASK 3 TOTALS						
Task 4 Task 4 Analysis of Split Samples						
4	4.1 Innovative Methods/Field Screening Analysis					
4	4.2 Analytical Services Provided by CLP, DESA, EPA-ERT					
4	4.3 Non-Routine Analytical Services					
TASK 4 TOTALS						
Task 5 Task 5 Data Validation of Split Samples						
5	5.1 Prepare and Ship Environmental Samples					
5	5.2 Sample Management/Coordination with Appropriate Personnel					
5	5.3 Data Validation					
TASK 5 TOTALS						
Task 6 Task 6 Data Evaluation						
6	6.1 Data Usability Evaluation and Field QA/QC					
6	6.2 Data Reduction, Tabulation and Evaluation					
6	6.3 Modeling Oversight					
6	6.4 Technical Memorandum (Data Evaluation Report)					
TASK 6 TOTALS						
Task 7 Task 7 Review of PRP Remedial Design Documents						
7	7.1 Review PRP Remedial Design Documents					
TASK 7 TOTALS						
Task 8 Task 8 Technical Meeting Support						
8	8.1 Technical Meeting Support					
Task 9 Task 9 Work Assignment Closeout						
9	9.1 Revised Work Plan Budget					
9	9.2 Document Indexing					
9	9.3 Document Retention/Conversion					
TASK 9 TOTALS						
GRAND TOTAL						

REPORT 4a:: TRAVEL

WORK ASSIGNMENT TYPE: Remedial Design Oversight

SUBMITTAL DATE 07/09/15



Task Number	Task Name	Mileage			Per Diem			Lodging		Other Travel (See Notes)			Travel Cost (\$)	Notes	
		Unit Price(\$)	Units	Cost (\$)	Unit Price(\$)	Units	Cost (\$)	Unit Price(\$)	Units	Cost (\$)	Unit Price(\$)	Units			Cost (\$)
Task 1 Project Planning And Support															
1	1.1 Project Administration														includes mileage and tolls
1	1.2 Attend Scoping Meeting														
1	1.3 Conduct Site Visit														
1	1.4 Develop Draft Work Plan and Associated Cost Estimate														
1	1.5 Negotiate and Prepare Final Work Plan and Budget														
1	1.6 Evaluate Existing Data and Documents														
1	1.7 Quality Assurance Project Plan (QAPP)														
1	1.8 Health and Safety Plan (HASP)														
1	1.9 Review PRP Plans														
1	1.10 Meetings/Weekly Conference Calls														
1	1.11 Subcontract Procurement														
1	1.12 Perform Subcontract Management														
TASK 1 TOTALS															
Task 2 Community Relations															
2	2.1 Community Interviews - Not Applicable														
2	2.2 Community Relations Plan (CRP) - Not Applicable														
2	2.3 Public Meeting Support														
2	2.4 Fact Sheet Preparation														
2	2.5 Proposed Plan Support - Not Applicable														
2	2.6 Public Notices														
2	2.7 Information Repositories														
2	2.8 Site Mailing List														
TASK 2 TOTALS															
Task 3 Field Oversight and Data Acquisition															
3	3.1 Mobilization and Demobilization Oversight														
3	3.2 Remedial Design Field Oversight														
3	3.3 Prepare Field Investigation Oversight Periodic Reports														
3	3.4 Prepare Final Field Investigation Oversight Summary Report														
TASK 3 TOTALS															
Task 4 Task 4 Analysis of Split Samples															
4	4.1 Innovative Methods/Field Screening Analysis														
4	4.2 Analytical Services Provided by CLP, DESA, EPA-ERT														
4	4.3 Non-Routine Analytical Services														
TASK 4 TOTALS															
Task 5 Task 5 Data Validation of Split Samples															
5	5.1 Prepare and Ship Environmental Samples														
5	5.2 Sample Management/Coordination with Appropriate Personnel														
5	5.3 Data Validation														
TASK 5 TOTALS															
Task 6 Task 6 Data Evaluation of Sample Analysis															
6	6.1 Data Usability Evaluation and Field QA/QC														
6	6.2 Data Reduction, Tabulation and Evaluation														
6	6.3 Modeling Oversight														
6	6.4 Technical Memorandum (Data Evaluation Report)														
TASK 6 TOTALS															
Task 7 Task 7 Review of PRP Remedial Design Documents															
7	7.1 Review PRP Remedial Design Documents														
TASK 7 TOTALS															
Task 8 Task 8 Technical Meeting Support															
8	8.1 Technical Meeting Support														
TASK 8 TOTALS															
Task 9 Task 9 Work Assignment Closeout															
9	9.1 Revised Work Plan Budget														
9	9.2 Document Indexing														
9	9.3 Document Retention/Conversion														
TASK 9 TOTALS															
GRAND TOTAL															

WORK PLAN
EPA REGION 2 AES CONTRACT NO. EP-W-09-009



REPORT 5a:: SUBCONTRACTORS

WORK ASSIGNMENT NO: 032-ROBE-A245

WORK ASSIGNMENT TYPE: Remedial Design Oversight

SUBMITTAL DATE 07/09/15

WORK ASSIGNMENT TITLE: New Cassel/Hicksville Groundwater Contamination Site

Task Number	Task Name	Description	Cost (\$)	Notes
Task 1 Project Planning And Support				
1	1.1	Project Administration		
1	1.2	Attend Scoping Meeting		
1	1.3	Conduct Site Visit		
1	1.4	Develop Draft Work Plan and Associated Cost Estimate		
1	1.5	Negotiate and Prepare Final Work Plan and Budget		
1	1.6	Evaluate Existing Data and Documents		
1	1.7	Quality Assurance Project Plan (QAPP)		
1	1.8	Health and Safety Plan (HASP)		
1	1.9	Review PRP Plans		
1	1.10	Meetings/Weekly Conference Calls		
1	1.11	Subcontract Procurement		
1	1.12	Perform Subcontract Management		
TASK 1 TOTALS				
Task 2 Community Relations				
2	2.1	Community Interviews - Not Applicable		
2	2.2	Community Relations Plan (CRP) - Not Applicable		
2	2.3	Public Meeting Support		
2	2.4	Fact Sheet Preparation		
2	2.5	Proposed Plan Support - Not Applicable		
2	2.6	Public Notices		
2	2.7	Information Repositories		
2	2.8	Site Mailing List		
TASK 2 TOTALS				
Task 3 Field Oversight and Data Acquisition				
3	3.1	Mobilization and Demobilization Oversight		
3	3.2	Remedial Design Field Oversight		
3	3.3	Prepare Field Investigation Oversight Periodic Reports		
3	3.4	Prepare Final Field Investigation Oversight Summary Report		
TASK 3 TOTALS				
Task 4 Task 4 Analysis of Split Samples				
4	4.1	Innovative Methods/Field Screening Analysis		
4	4.2	Analytical Services Provided by CLP, DESA, EPA-ERT		
4	4.3	Non-Routine Analytical Services		
TASK 4 TOTALS				
Task 5 Task 5 Data Validation of Split Samples				
5	5.1	Prepare and Ship Environmental Samples		
5	5.2	Sample Management/Coordination with Appropriate Personnel		
5	5.3	Data Validation		
TASK 5 TOTALS				
Task 6 Task 6 Data Evaluation of Sample Analysis				
6	6.1	Data Usability Evaluation and Field QA/QC		
6	6.2	Data Reduction, Tabulation and Evaluation		
6	6.3	Modeling Oversight		
6	6.4	Technical Memorandum (Data Evaluation Report)		
TASK 6 TOTALS				
Task 7 Task 7 Review of PRP Remedial Design Documents				
7	7.1	Review PRP Remedial Design Documents		
TASK 7 TOTALS				
Task 8 Task 8 Technical Meeting Support				
8	8.1	Technical Meeting Support		
TASK 8 TOTALS				
Task 9 Task 9 Work Assignment Closeout				
9	9.1	Revised Work Plan Budget		
9	9.2	Document Indexing		
9	9.3	Document Retention/Conversion		
TASK 9 TOTALS				
GRAND TOTAL				

WORK PLAN
EPA REGION 2 AES CONTRACT NO. EP-W-09-009



REPORT 6a:: SPECIAL EQUIPMENT

WORK ASSIGNMENT NO: 032-ROBE-A245

WORK ASSIGNMENT TYPE: Remedial Design Oversight

SUBMITTAL DATE 07/09/15

WORK ASSIGNMENT TITLE: New Cassel/Hicksville Groundwater Contamination Site

Task Number	Task Name	Description Of Equipment	Cost (\$)	Notes
Task 1 Project Planning And Support				
1	1.1 Project Administration			
1	1.2 Attend Scoping Meeting			
1	1.3 Conduct Site Visit			
1	1.4 Develop Draft Work Plan and Associated Cost Estimate			
1	1.5 Negotiate and Prepare Final Work Plan and Budget			
1	1.6 Evaluate Existing Data and Documents			
1	1.7 Quality Assurance Project Plan (QAPP)			
1	1.8 Health and Safety Plan (HASP)			
1	1.9 Review PRP Plans			
1	1.10 Meetings/Weekly Conference Calls			
1	1.11 Subcontract Procurement			
1	1.12 Perform Subcontract Management			
TASK 1 TOTALS				
Task 2 Community Relations				
2	2.1 Community Interviews - Not Applicable			
2	2.2 Community Relations Plan (CRP) - Not Applicable			
2	2.3 Public Meeting Support			
2	2.4 Fact Sheet Preparation			
2	2.5 Proposed Plan Support - Not Applicable			
2	2.6 Public Notices			
2	2.7 Information Repositories			
2	2.8 Site Mailing List			
TASK 2 TOTALS				
Task 3 Field Oversight and Data Acquisition				
3	3.1 Mobilization and Demobilization Oversight			
3	3.2 Remedial Design Field Oversight			
3	3.3 Prepare Field Investigation Oversight Periodic Reports			
3	3.4 Prepare Final Field Investigation Oversight Summary Report			
TASK 3 TOTALS				
Task 4 Task 4 Analysis of Split Samples				
4	4.1 Innovative Methods/Field Screening Analysis			
4	4.2 Analytical Services Provided by CLP, DESA, EPA-ERT			
4	4.3 Non-Routine Analytical Services			
TASK 4 TOTALS				
Task 5 Task 5 Data Validation of Split Samples				
5	5.1 Prepare and Ship Environmental Samples			
5	5.2 Sample Management/Coordination with Appropriate Personnel			
5	5.3 Data Validation			
TASK 5 TOTALS				
Task 6 Task 6 Data Evaluation of Sample Analysis				
6	6.1 Data Usability Evaluation and Field QA/QC			
6	6.2 Data Reduction, Tabulation and Evaluation			
6	6.3 Modeling Oversight			
6	6.4 Technical Memorandum (Data Evaluation Report)			
TASK 6 TOTALS				
Task 7 Task 7 Review of PRP Remedial Design Documents				
7	7.1 Review PRP Remedial Design Documents			
TASK 7 TOTALS				
Task 8 Task 8 Technical Meeting Support				
8	8.1 Technical Meeting Support			
TASK 8 TOTALS				
Task 9 Task 9 Work Assignment Closeout				
9	9.1 Revised Work Plan Budget			
9	9.2 Document Indexing			
9	9.3 Document Retention/Conversion			
TASK 9 TOTALS				
GRAND TOTAL				